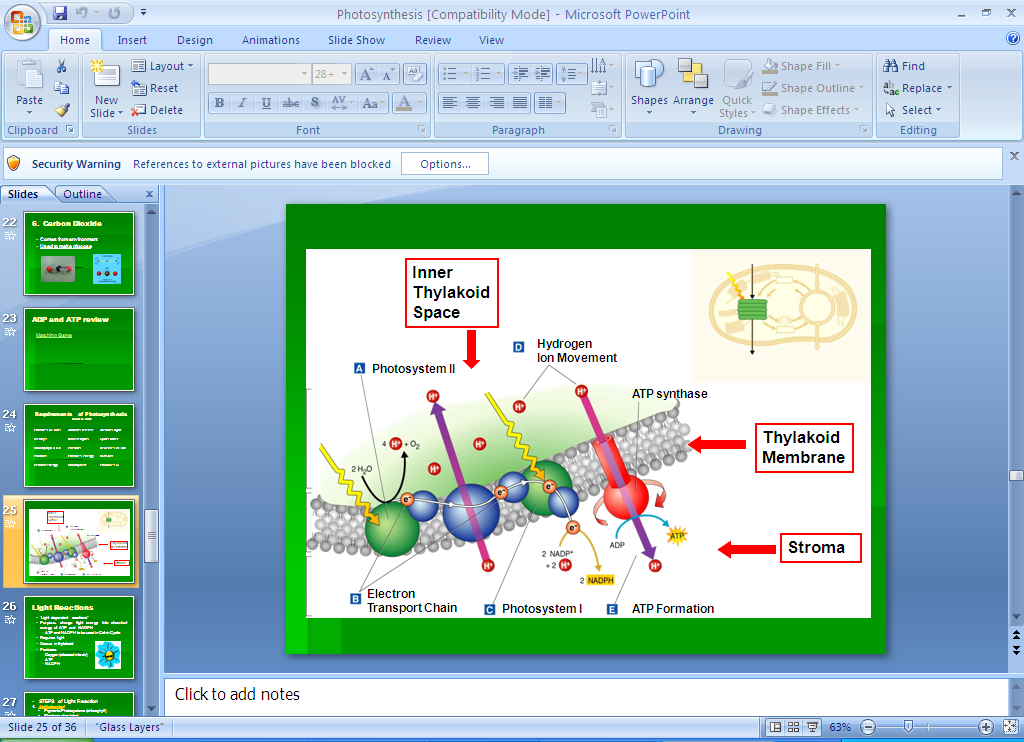
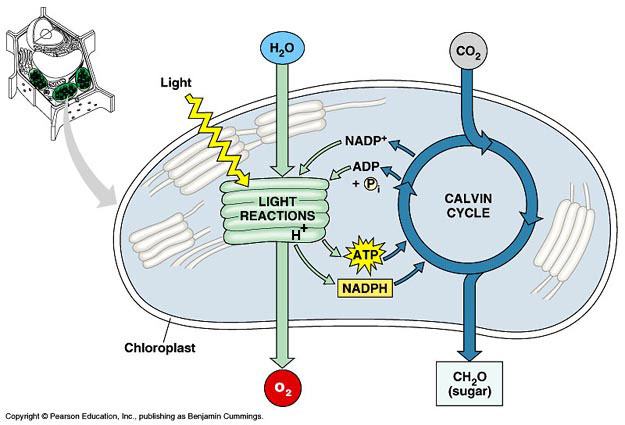
**Photosynthesis Review sheet**

1. What is the difference between an autotroph and a heterotroph?
2. What is a food web? Create a food web using grass, grasshopper, bunny, deer, mouse, cow, human, toad, and hawk.
   1. Producers
   2. Primary consumers
   3. Secondary consumers
3. Explain why leaves change color in the fall.
4. Definition and equation for photosynthesis.
5. What are the 6 requirements for photosynthesis?
6. Why does something red appear red?
7. What is white? What is black? In terms of the visible spectrum (what’s absorbed/reflected?)
8. What is ATP? How does it work?
9. What is a pigment? What are some examples? What is primary pigment in plants?
10. Draw and label the parts of a chloroplast.
11. How many reactions are there in the process of photosynthesis?
    1. What are they?
    2. Where in the chloroplast does each take place?
12. What is NADPH? (what does it carry?)
13. What splits water? What 2 things does it get split into?
14. What 2 things are made in the light reaction that are used in the dark reaction?
15. Where does carbon dioxide come from? What is it used to help make?
    1. Which reaction is carbon dioxide used?



1. Which reaction is being shown in this picture?
2. What are the three major steps that are happening?



1. Label the boxes with the following words: sunlight, light reaction, calvin cycle (dark reaction), carbon dioxide, ATP, NADPH, oxygen, glucose, and water. (hint this picture is in your notes packet, and it is a really good summary for all of photosynthesis – be familiar with this .)
2. What are 2 other names for the dark reaction?
3. What is the purpose of the dark reaction?
4. Why are there 6 cycles of the dark reaction?
5. What are the 4 things that impact the rate of photosynthesis?
6. Why is deforestation such a negative thing to do?
7. What are some of the plant adaptations observed in different environments?

